



2015-2016 PETITION/PROGRAM SHEET
Degree: Associate of Applied Science
Major: Mechanical Engineering Technology

About This Major . . .

The objective of the Associate of Applied Science (AAS) in Mechanical Engineering Technology (MET) is to provide the knowledge necessary to aid in the design and build of products and systems to meet the current and future needs of society. The mission of this applied engineering technology program is to provide graduates the skills and knowledge for a successful transition to either a career as a mechanical engineering technician or to continue in the Bachelor of Science (BS) program in the Applied Mechanical Engineering (AME) program.

The AAS in MET is designed for a student who is a doer or implementer - one who is able to apply mathematics, the natural and engineering sciences, engineering principles, and current engineering practices to the operation and testing of mechanical systems. Laboratory courses are an integral component of the MET program and are designed to develop student competence to apply experimental design methods, as well as provide a "hands-on" approach to building products and systems.

For more information on what you can do with this major, go to <http://www.coloradomesa.edu/career/whatmajor.html>.

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply the knowledge, techniques, skills, and modern tools of engineering to engineering problems. (Critical Thinking/Applied Learning)
2. Apply knowledge of mathematics, science, and technology to engineering problems. (Quantitative Fluency)
3. Effectively use oral, written, and graphical communication skills to address both technical and non-technical audiences. (Communication Fluency)
4. Apply the ethical standards of the discipline to engineering problems. (Specialized Knowledge)

NAME: _____ **STUDENT ID #:** _____

LOCAL ADDRESS AND PHONE NUMBER: _____

_____ () _____

I, (Signature) _____, hereby certify that I have completed (or will complete) all the courses listed on the Program Sheet. I have read and understand the policies listed on the last page of this program sheet. I further certify that the grade listed for those courses is the final course grade received except for the courses in which I am currently enrolled and the courses which I complete next semester. I have indicated the semester in which I will complete these courses.

Signature of Advisor Date _____ 20____

Signature of Department Head Date _____ 20____

Signature of Registrar Date _____ 20____

DEGREE REQUIREMENTS:

- 62 semester hours total (A minimum of 15 of the final 30 semester hours of credit at CMU).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A grade of "C" or higher must be achieved in achieved in coursework toward major content area.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Program sheets are for advising purposes only. Because a program may have requirements specific to the degree, check with your advisor for additional guidelines, including prerequisites, grade point averages, grades, exit examinations, and other expectations. It is the student's responsibility to be aware of, and follow, all guidelines for the degree being pursued. Any exceptions or substitutions must be approved by the faculty advisor and/or Department Head. Courses related to teacher licensure must also be approved by the Teacher Education Dept.
- When filling out the program sheet a course can be used only once.
- See the "Undergraduate Graduation Requirements" in the catalog for additional graduation information.

ESSENTIAL LEARNING REQUIREMENTS (Minimum 15 semester hours) See the current catalog for a list of courses that fulfill the requirements below. If a course is on the Essential Learning list of options and a requirement for your major, you must use it to fulfill the major requirement and make a different selection within the Essential Learning requirement. The Essential Learning capstone course and co-requisite Essential Speech course (required for bachelor's degrees) cannot be used as options for the below requirements.

Course	No	Title	Sem.hrs	Grade	Term
Communication (6 semester hours)					
ENGL 111		English Composition	3	_____	_____
ENGL 112		English Composition	3	_____	_____
Math (Minimum 3 semester hours)					
MATH 119		Pre-Calculus Mathematics	5*	_____	_____
Social and Behavioral Sciences (3 semester hours)					
SOCI 120		Technology and Society	3	_____	_____
History (3 semester hours)					
_____	_____	_____	3	_____	_____

Course	No	Title	Sem.hrs	Grade	Term
WELLNESS REQUIREMENT (2 semester hours)					
KINE 100		Health and Wellness	1	_____	_____
KINA 1	_____	_____	1	_____	_____

ASSOCIATE OF APPLIED SCIENCE IN MECHANICAL ENGINEERING TECHNOLOGY: COURSE REQUIREMENTS
(45 semester hours)

CHEM 121		General Chemistry	4	_____	_____
CHEM 121L		General Chemistry Lab	1	_____	_____
Or					
CHEM 131		General Chemistry	4	_____	_____
CHEM 131L		General Chemistry Lab	1	_____	_____
CSCI 130		Intro to Engr. Computing	3	_____	_____
PHYS 111		General Physics	4	_____	_____
PHYS 111L		General Physics Lab	1	_____	_____
Or					
PHYS 131		Fundamental Mechanics	4	_____	_____
PHYS 131L		Fundamental Mechanics Lab	1	_____	_____
ENGR 101		Introduction to Engineering	1	_____	_____
ENGR 125		CAD and Fabrication	3	_____	_____
ENGR 140		First-Year Engr. Projects	3	_____	_____
ENGR 261		Statics and Structures	3	_____	_____
MAMT 115		Intro to Machine Shop	3	_____	_____
MAMT 251		CNC Machining I	3	_____	_____
MAMT 255		CNC Machining II	3	_____	_____
MATH 135		Engineering Calculus I	4	_____	_____
MATH 136		Engineering Calculus II	4	_____	_____
WELD 151		Introduction to Welding	3	_____	_____
ELECTIVES (2 semester hours)					
MATH 119		Pre-Calculus Mathematics	2*	_____	_____

*5 credit course -3 credits apply to the Essential Learning requirement and 2 credits apply to Electives

SUGGESTED COURSE SEQUENCING FOR THE ASSOCIATE OF APPLIED SCIENCE WITH A MAJOR IN MECHANICAL ENGINEERING TECHNOLOGY

This is a recommended sequence of course work. Certain courses may have prerequisites or are only offered during the Fall or Spring semesters. It is the student's responsibility to meet with the assigned advisor and check the 2 year course matrix on the Colorado Mesa website for course availability.

FRESHMAN YEAR

Fall Semester		Hours	Spring Semester		Hours
ENGR 101	Intro to Engineering	1	MATH 135	Engineering Calculus I	4
MATH 119	Pre-Calculus Mathematics	5	ENGL 112	English Composition	3
ENGL 111	English Composition	3	ENGR 140	First-Year Engr. Projects	3
ENGR 125	CAD and Fabrication	3	MAMT 115	Intro to Machine Shop	3
KINE 100	Health and Wellness	1	WELD 151	Introduction to Welding	<u>3</u>
Essential Learning History		<u>3</u>			16
		16			

SOPHOMORE YEAR

Fall Semester		Hours	Spring Semester		Hours
MATH 136	Engineering Calculus II	4	CSCI 130	Intro to Engr Computing	3
PHYS 131 OR 111	Fundamental Mechanics	4	MAMT 251	CNC Machining I	3
PHYS 131L OR 111L	Fundamental Mech Lab	1	MAMT 255	CNC Machining II	3
CHEM 121 OR 131	General Chemistry	4	ENGR 261	Statics and Structures	3
CHEM 121L OR 131L	General Chemistry Lab	<u>1</u>	KINA 1XX	Activity	1
		14	SOCI 120	Technology and Society	<u>3</u>
					16

POLICIES:

1. Please see the catalog for a complete list of graduation requirements.
2. This program sheet must be submitted with your graduation planning sheet to your advisor during the **semester prior to the semester of graduation, no later than October 1 for spring graduates, no later than March 1 for fall graduates.** You must turn in your "Intent to Graduate" form to the Registrar's Office **by September 15 if you plan to graduate the following May, and by February 15 if you plan to graduate the following December.**
3. Your advisor will sign and forward the Program Sheet and Graduation Planning Sheet to the Department Head for signature. Finally, the Department Head will submit the signed forms to the Registrar's Office. (Students cannot handle the forms once the advisor signs.)
4. If your petition for graduation is denied, it will be your responsibility to reapply for graduation in a subsequent semester. Your "Intent to Graduate" does not automatically move to a later graduation date.
5. NOTE: The semester before graduation, you may be required to take a Major Field Achievement Test (exit exam).